

PRELIMINARY DATASHEET



Features:

- 1 phase current sensing
- LED Type 4 digit
- Support Intelligent Algorithm
- 8 & 12 steps
- Dual Password Protection
- Configurable alarm setting
- Alarm indication on display

Size: 144mm x 144mm x 50mm

Technical Specifications

Display

Type	7 Segment LED
Digit	4 digits 1 Row
No. of LED	12 + 1 + 1 or 8 + 1 + 1

Input Specifications

Display parameter	Power factor, Alarm
Current Input	
Nominal Current	5A AC (Min 50mA, Max 6A)
Sensitivity	50mA
Burden	20 mOhms,
Overload	20% continuous
Voltage input	
Operating Limit	40-300V (L-N), 50-530V (L-L)
Power Consumption	0.05 VA
Rated Frequency	45-65 Hz
Measurement Range	
Power Factor	0.8 to -0.8
Alarm Indications	
Over Voltage	256 - 264V (L-N) 540 - 570V (L-L)
Under Voltage	195 - 204V (L-N) 380 - 480V (L-L)
Under Compensate	ON/OFF
Over Compensate	ON/OFF
CT Polarity Error	ON/OFF
Current Absent indication	Crr
Phase Compensation	0°, 90°, 120°, 210°, 240°, 330°
Electrical Connection	L-N / L-L
Frequency	45-65 Hz
Accuracy	Power factor : ±0.01
Settable Parameters	
CT Primary	1 / 5A to 9999A
CT Secondary	1 or 5A

Output Specifications

Output Contacts	NO, One common point Max fuse 6A
Steps	3 to 12 steps (For 12 relay) 3 to 8 steps (For 8 relay)
Relay Contact	5A @ 250VAC
Expected mechanical life	5 x 10 ⁶ operations
Expected electrical life	100000 operations at rated current

Supply Specifications

Auxiliary Supply	
Input voltage range	90 - 550VAC
Consumption	< 20 VA max

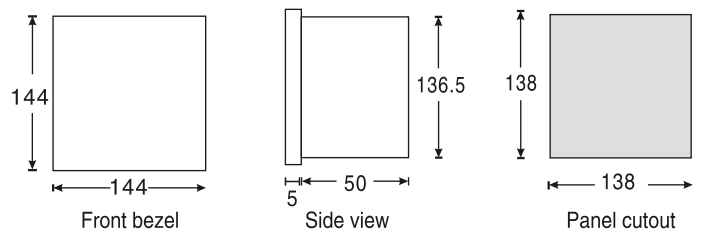
Control Specifications

Target PF	0.8 lag to 0.8 lead
Control Sensitivity	55 to 100%
Step time	5 to 240 Sec
Discharge time	5 to 999 sec
Switching program	Automatic / Linear / Rotational
Control Mode	Automatic / Manual
Auto initialization	Yes / No

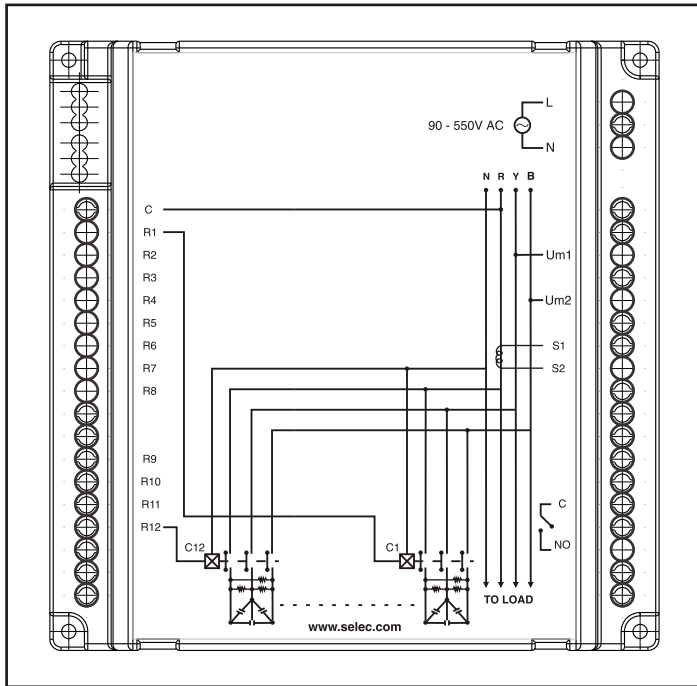
Mechanical Specifications

Mounting	Panel mount
Weight	440 gms

Dimensions



Terminal Connections



Ordering Information

Product Code	Supply Voltage	No. of stages
APFC147-112-90 / 550V	90 / 550V	12
APFC147-108-90 / 550V	90 / 550V	8